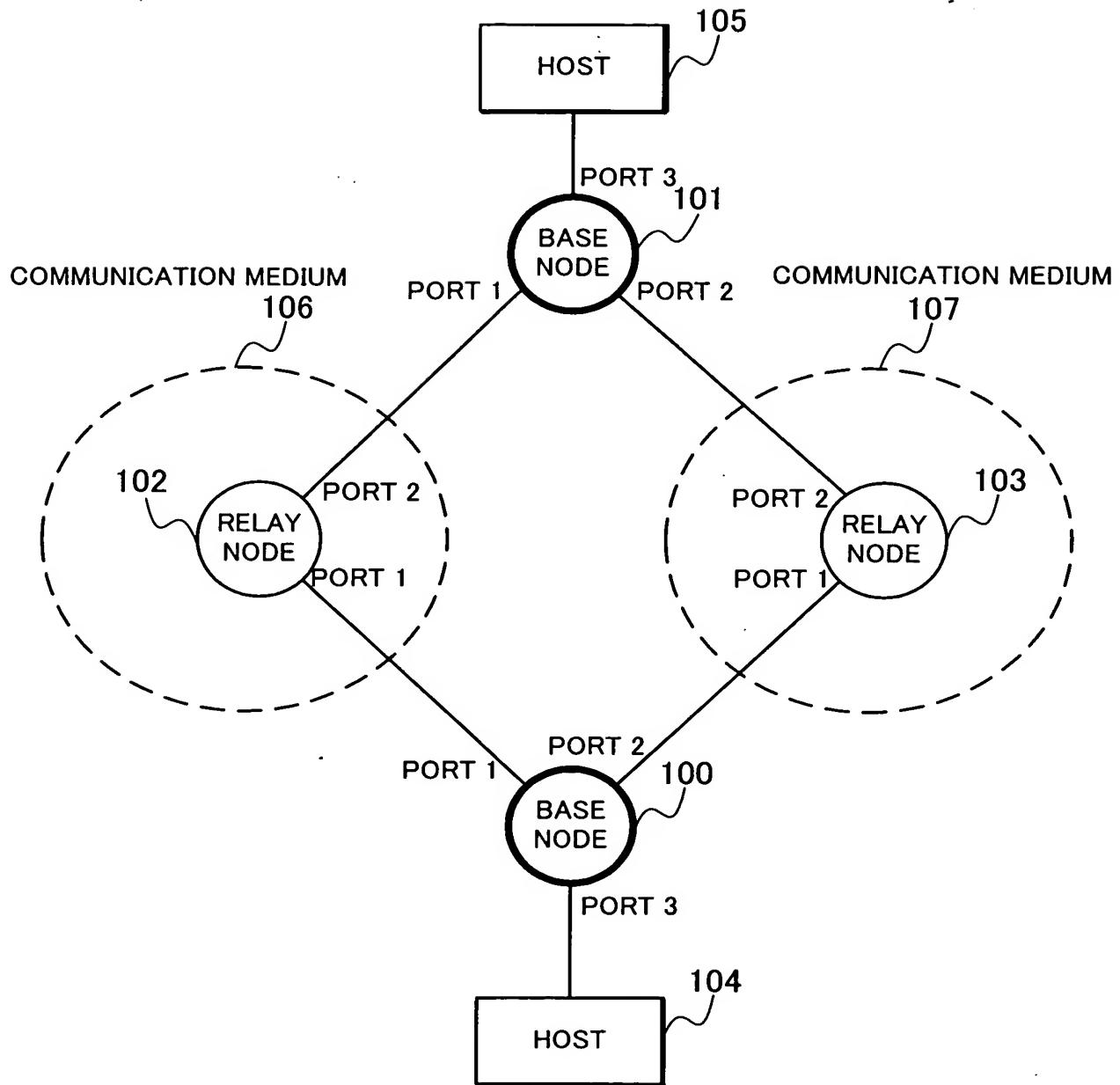
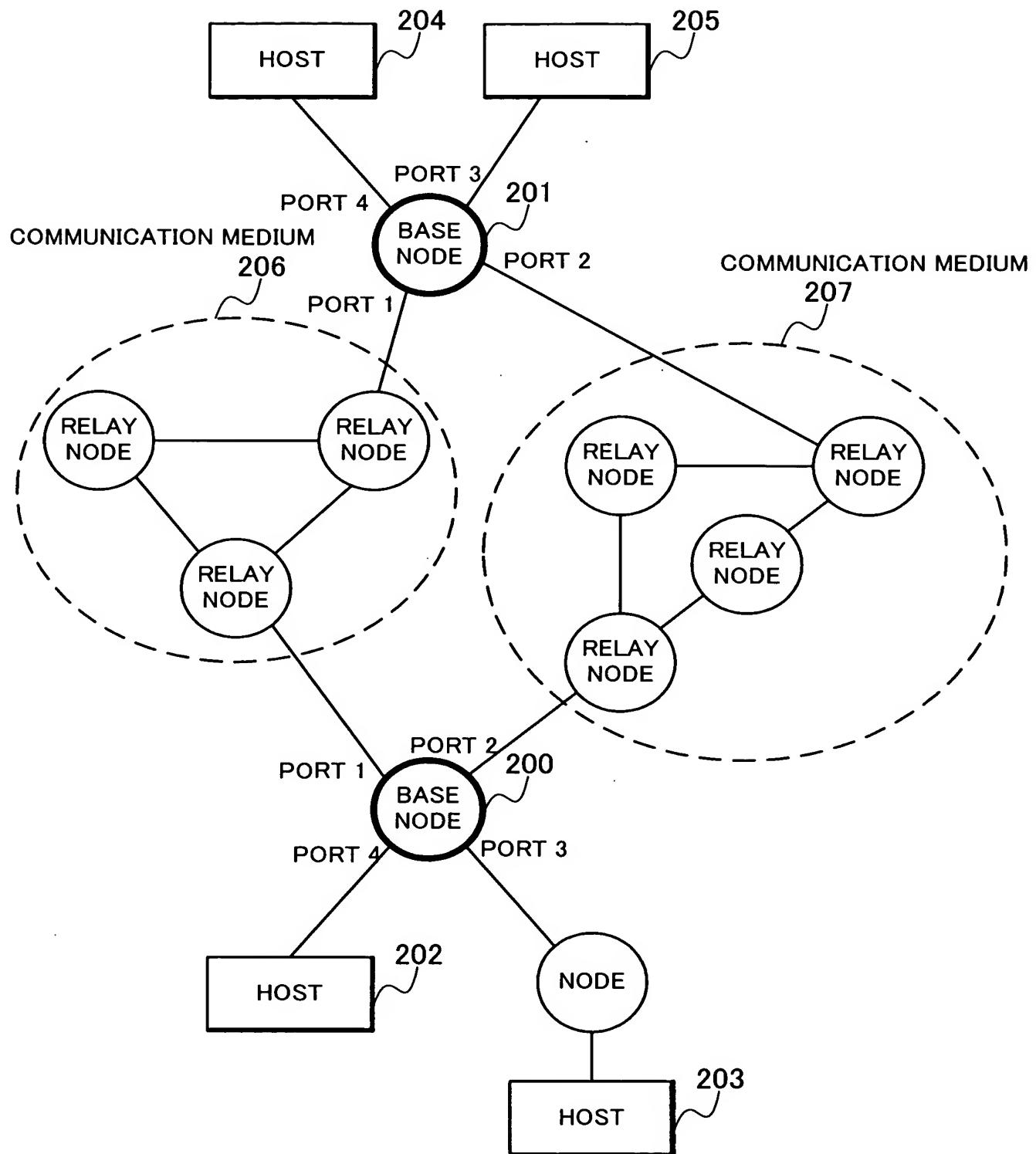
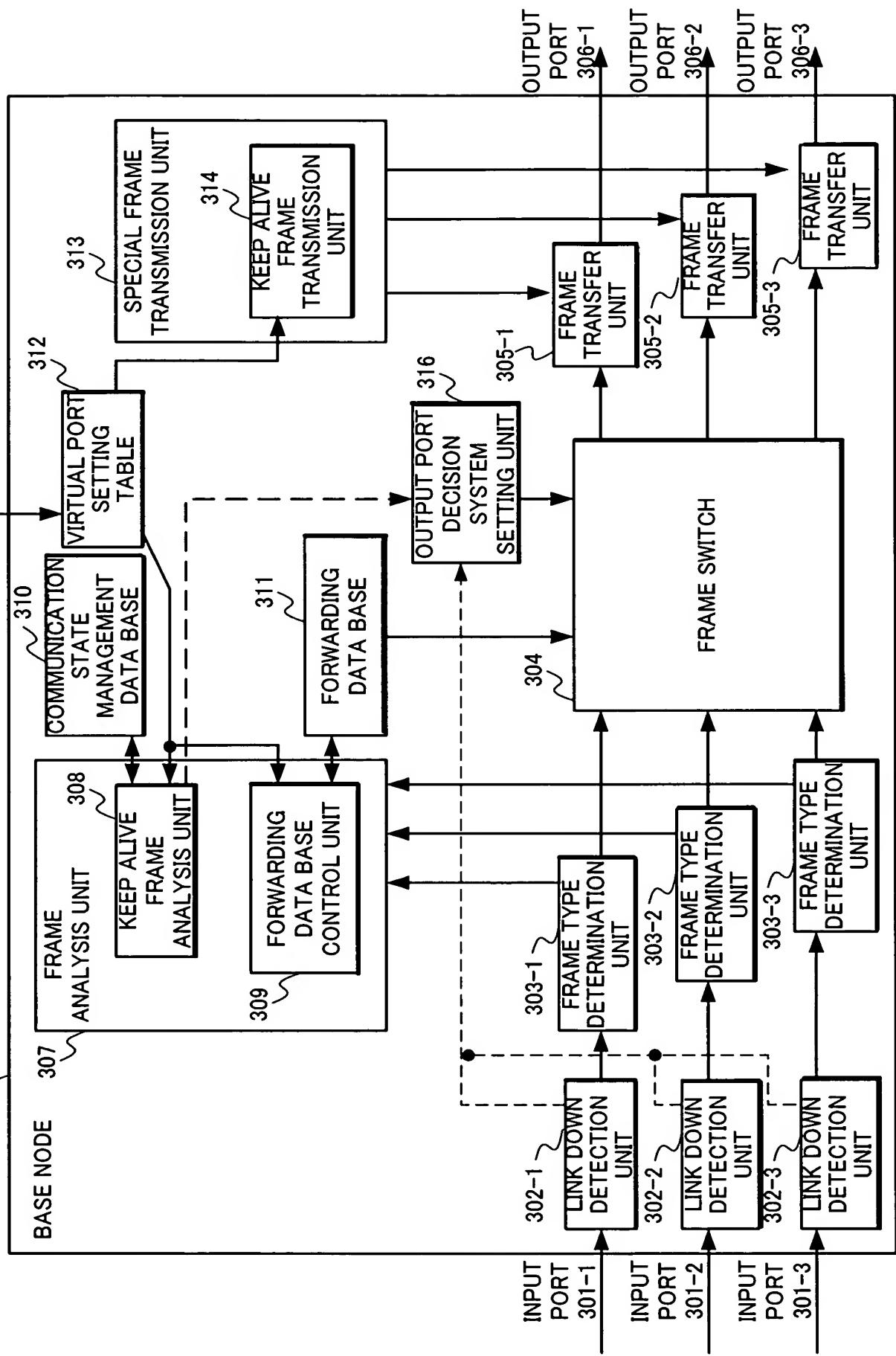


**FIG. 1**

**FIG. 2**

**FIG. 3** 100  
SETTING INPUT INTERFACE 315



**FIG. 4**

312 VIRTUAL PORT SETTING TABLE

VIRTUAL PORT	PORT 1, PORT 2
--------------	----------------

**FIG. 5**

311 FORWARDING DATA BASE

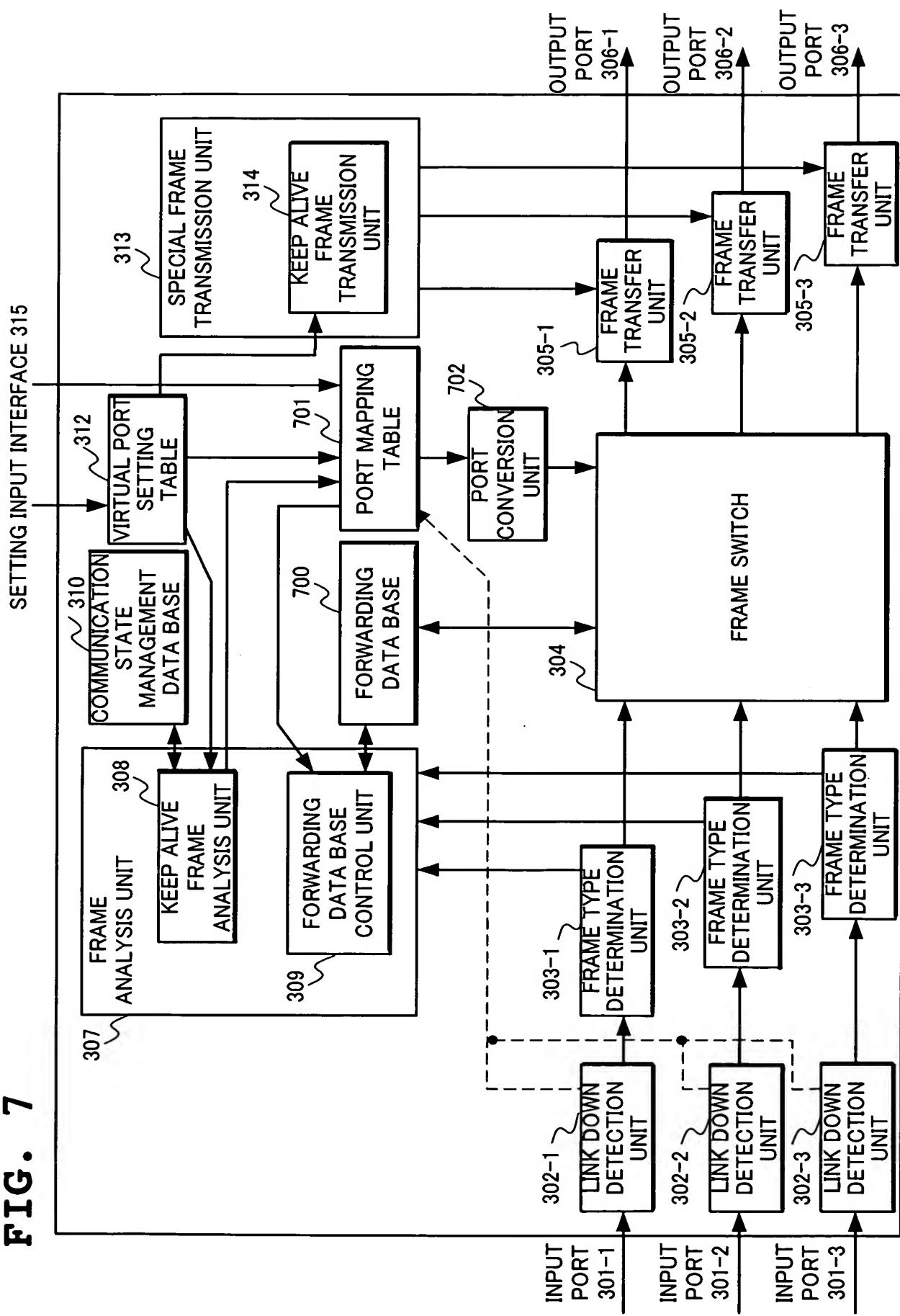
DESTINATION NODE INFORMATION	OUTPUT PORT 1	OUTPUT PORT 2
MAC ADDRESS OF BASE NODE 101	PORT 1	PORT 2
MAC ADDRESS OF HOST 104	PORT 3	PORT 3
MAC ADDRESS OF HOST 105	PORT 1	PORT 2
BROADCAST MAC ADDRESS	PORT1, PORT 3	PORT 2, PORT 3
MULTICAST MAC ADDRESS	PORT 1, PORT 3	PORT 2, PORT 3

**FIG. 6**

310 COMMUNICATION STATE MANAGEMENT DATA BASE

TRANSMISSION SOURCE NODE INFORMATION	PORT 1	PORT 2
MAC ADDRESS OF BASE NODE 101	RECEIVED STATE	YET-TO-ARRIVE STATE

FIG. 7



**FIG. 8**

701 PORT MAPPING TABLE

VIRTUAL PORT	REAL PORT
PORt 11	PORt 1, PORt 2

**FIG. 9**

700 FORWARDING DATA BASE

DESTINATION NODE INFORMATION	OUTPUT PORT
MAC ADDRESS OF BASE NODE 101	PORt 11
MAC ADDRESS OF HOST 104	PORt 3
MAC ADDRESS OF HOST 105	PORt 11
BROADCAST MAC ADDRESS	PORt 3, PORt 11
MULTICAST MAC ADDRESS	PORt 3, PORt 11

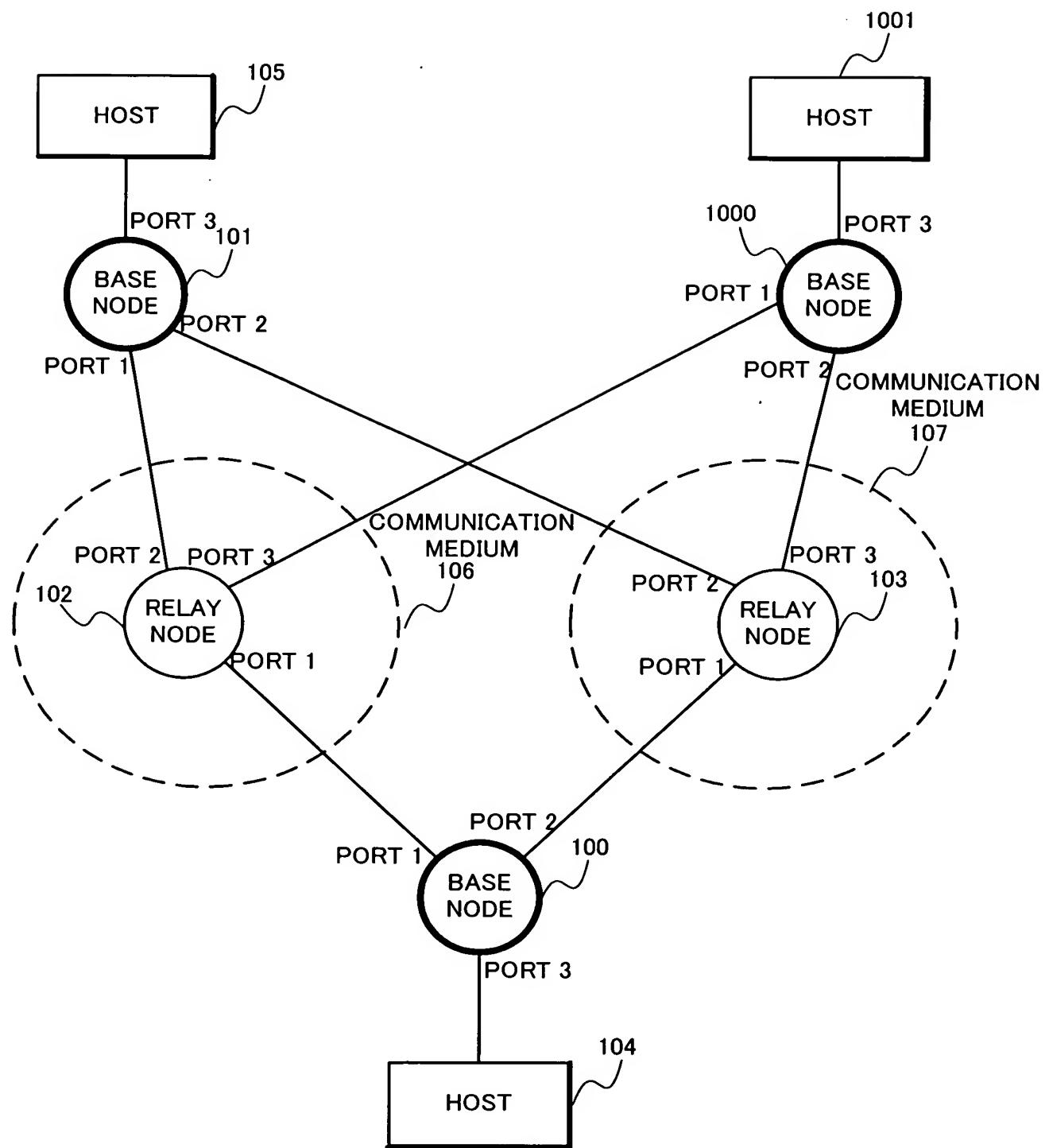
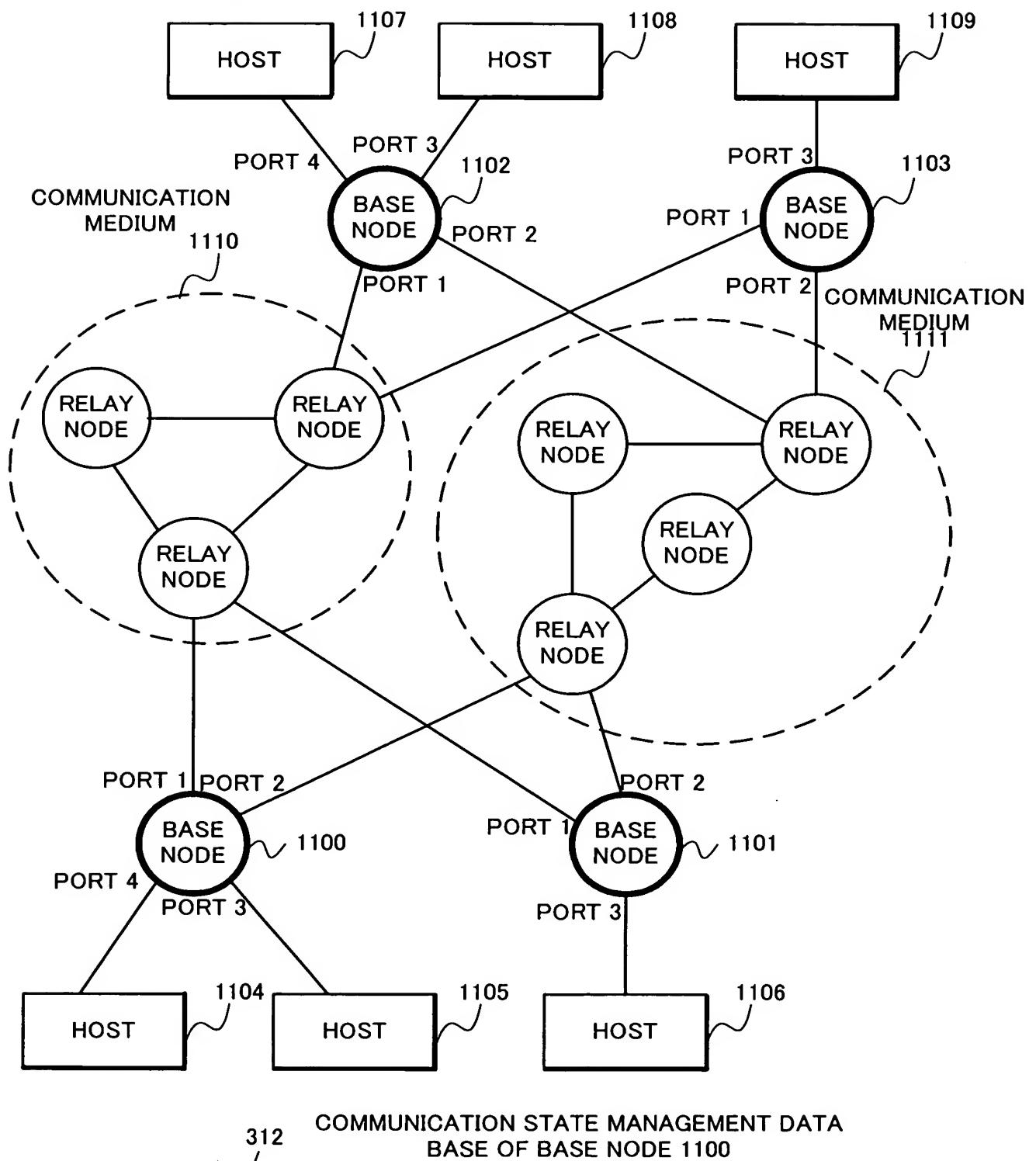
**FIG. 10**

FIG. 11

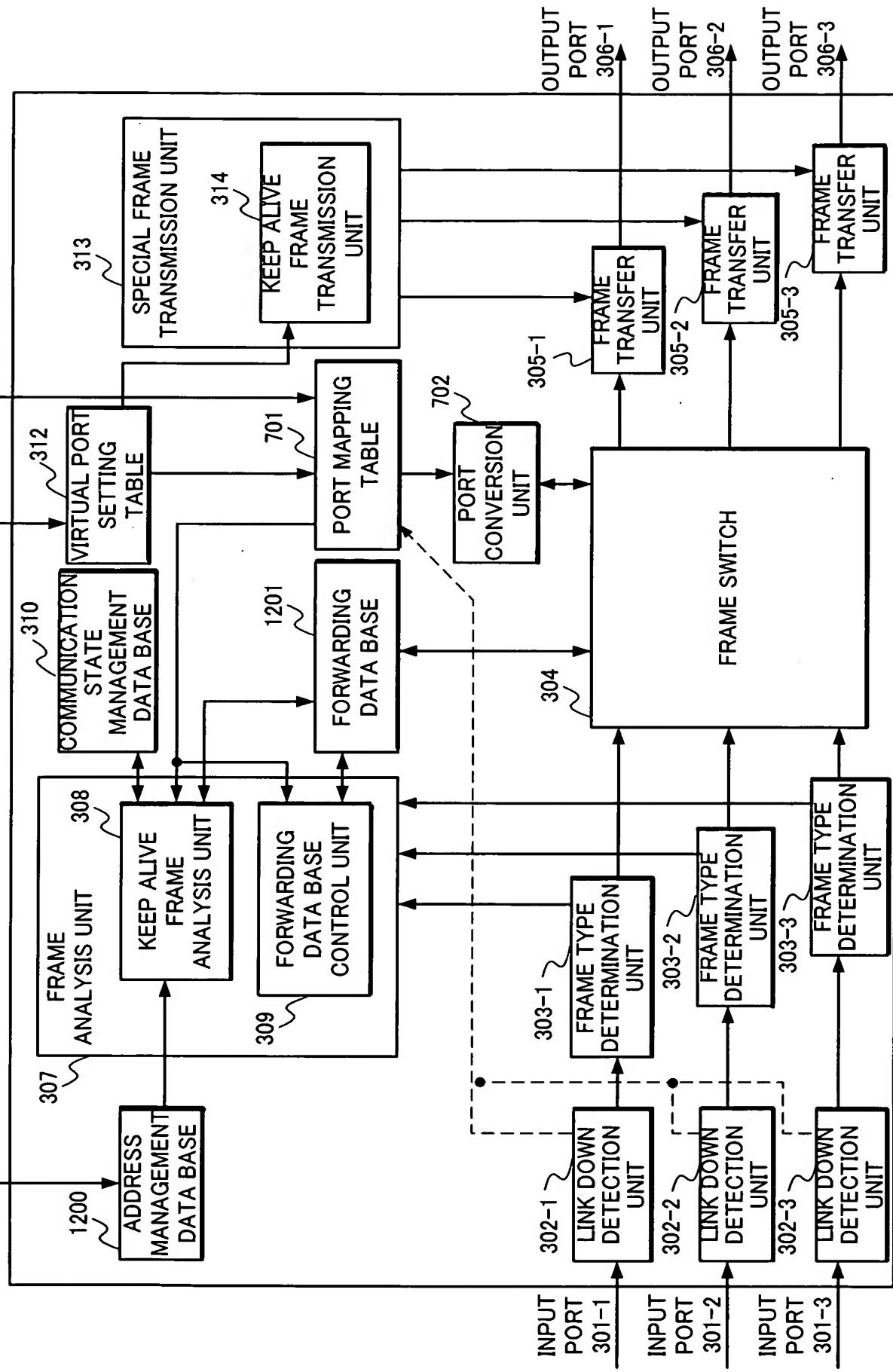


312 COMMUNICATION STATE MANAGEMENT DATA  
BASE OF BASE NODE 1100

TRANSMISSION SOURCE NODE INFORMATION	PORT 1	PORT 2
MAC ADDRESS OF BASE NODE 1101	RECEIVED STATE	YET-TO-ARRIVE STATE
MAC ADDRESS OF BASE NODE 1102	YET-TO-ARRIVE STATE	RECEIVED STATE
MAC ADDRESS OF BASE NODE 1103	RECEIVED STATE	YET-TO-ARRIVE STATE

FIG. 12

SETTING INPUT INTERFACE 315



**FIG. 13**

1200 ADDRESS MANAGEMENT DATA BASE



PARTNER NODE INFORMATION	NODE IDENTIFIER OF HOST
MAC ADDRESS OF BASE NODE 101	MAC ADDRESS OF HOST 105
MAC ADDRESS OF BASE NODE 1000	MAC ADDRESS OF HOST 1001

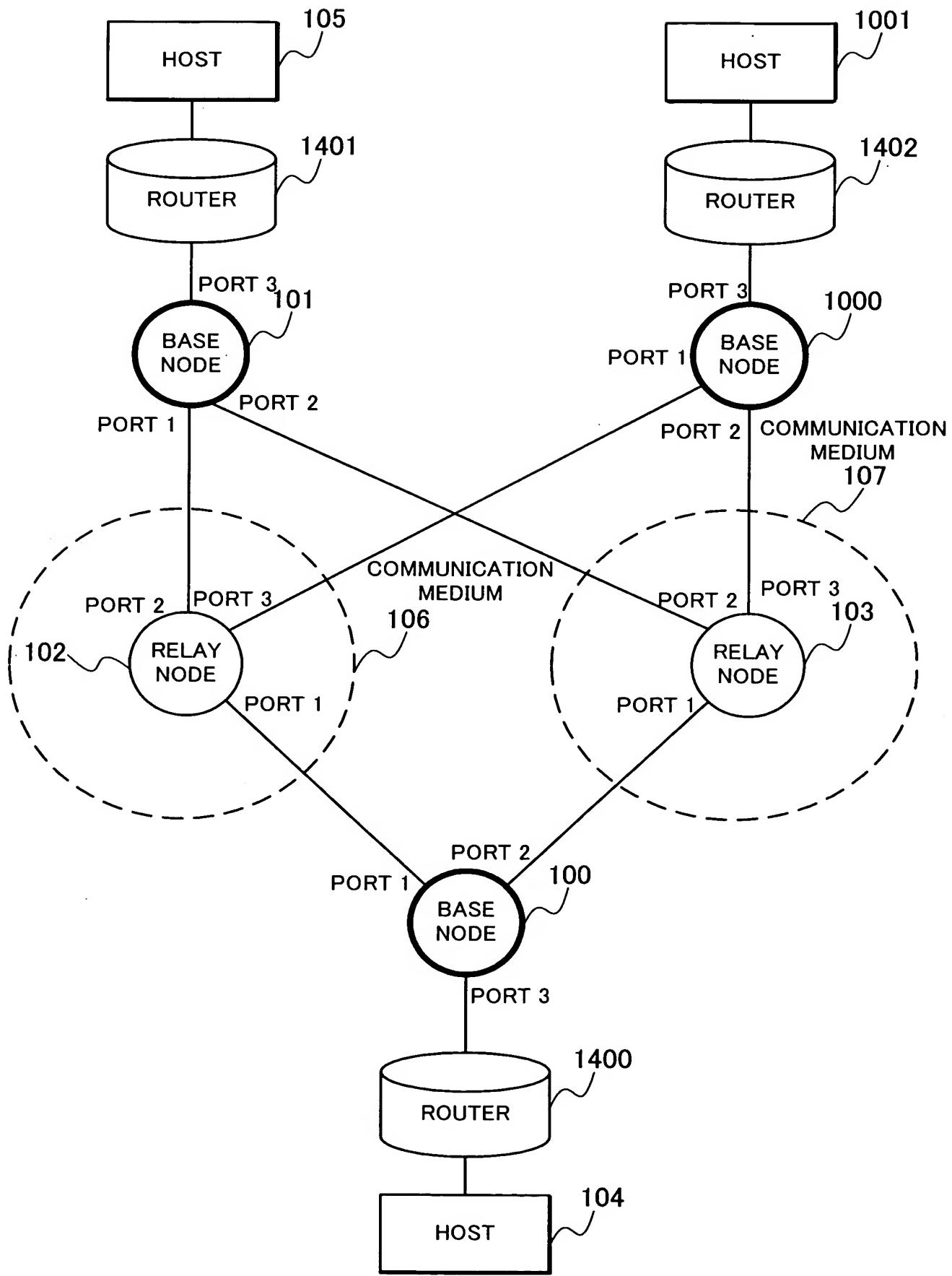
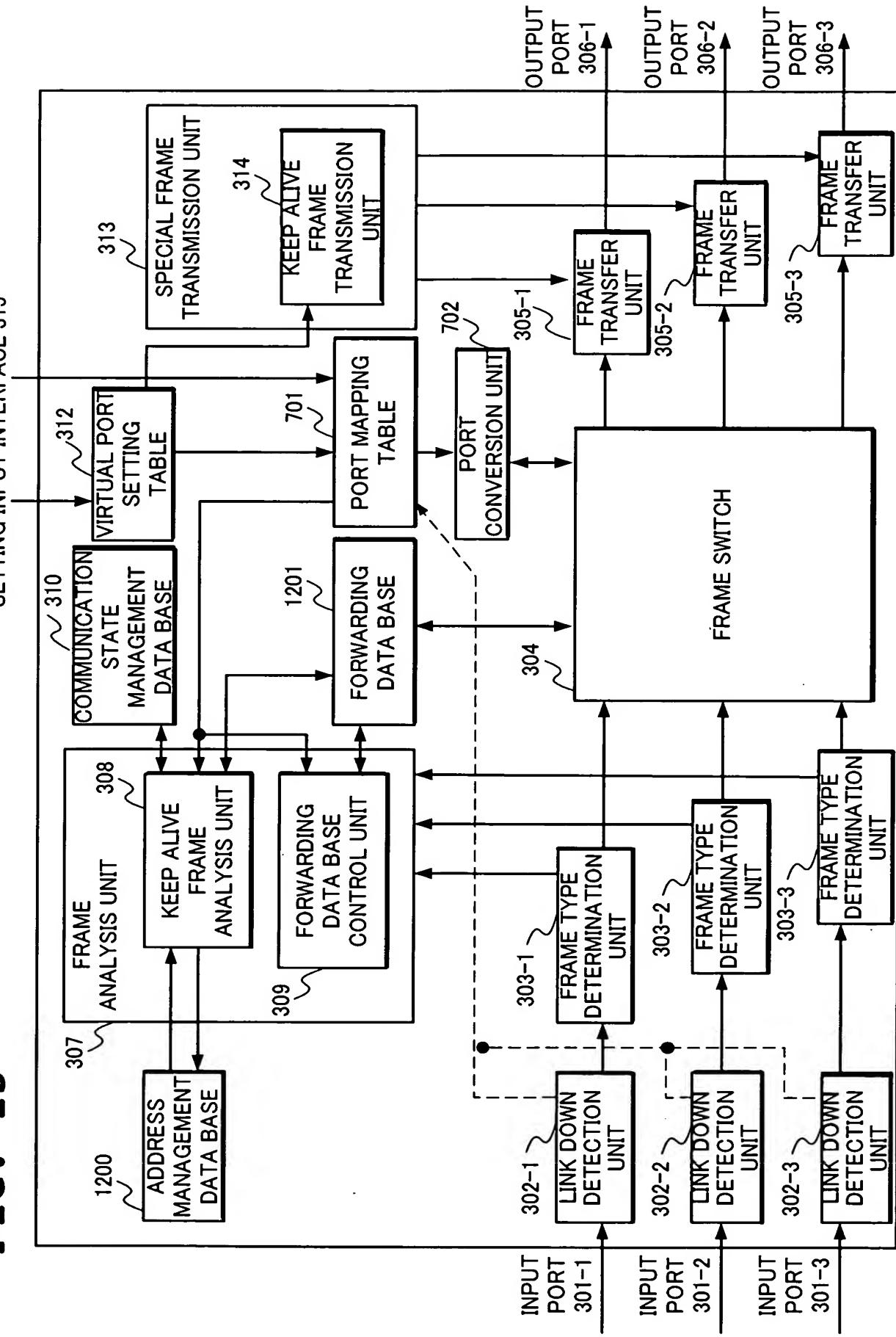
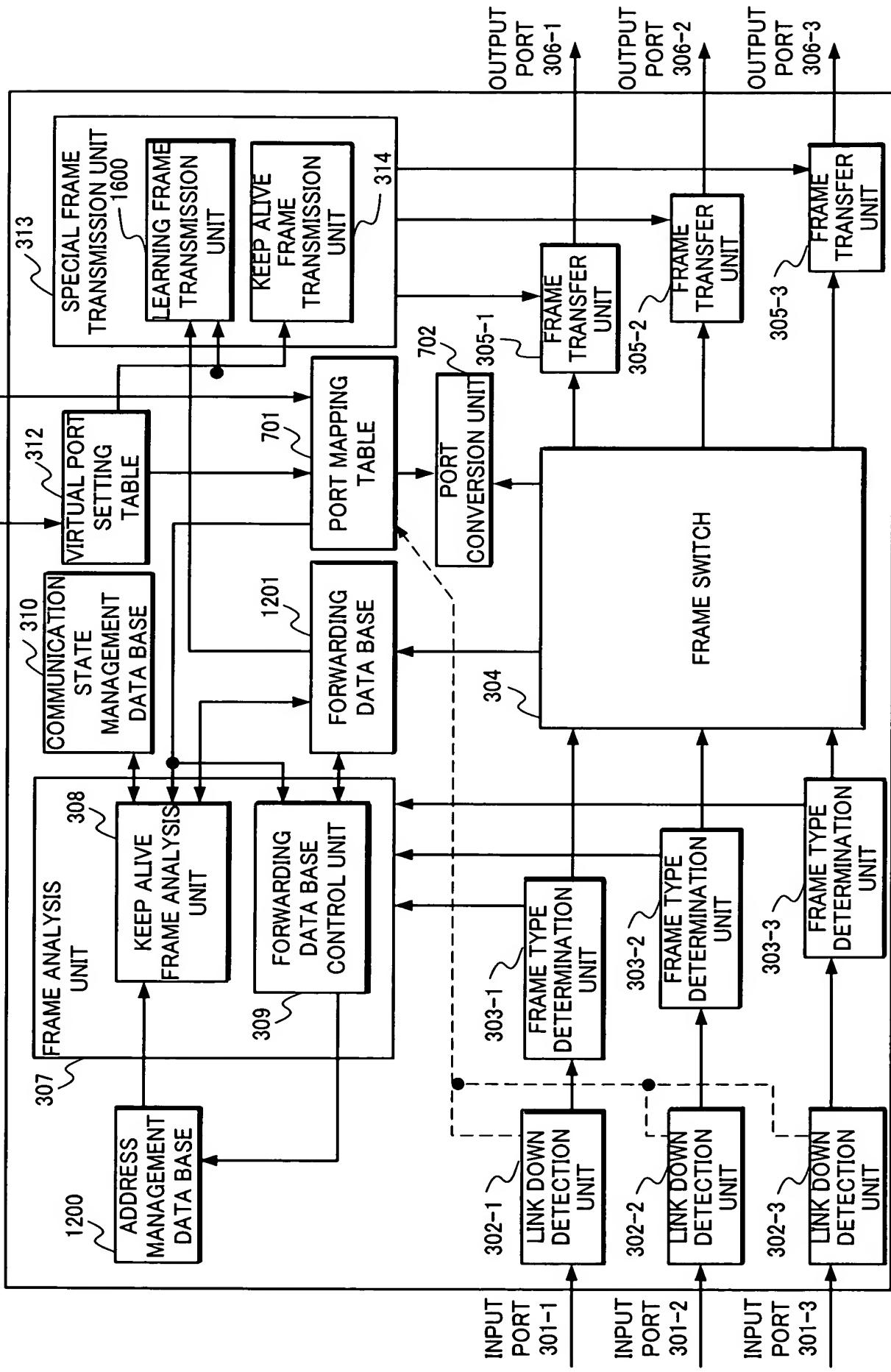
**FIG. 14**

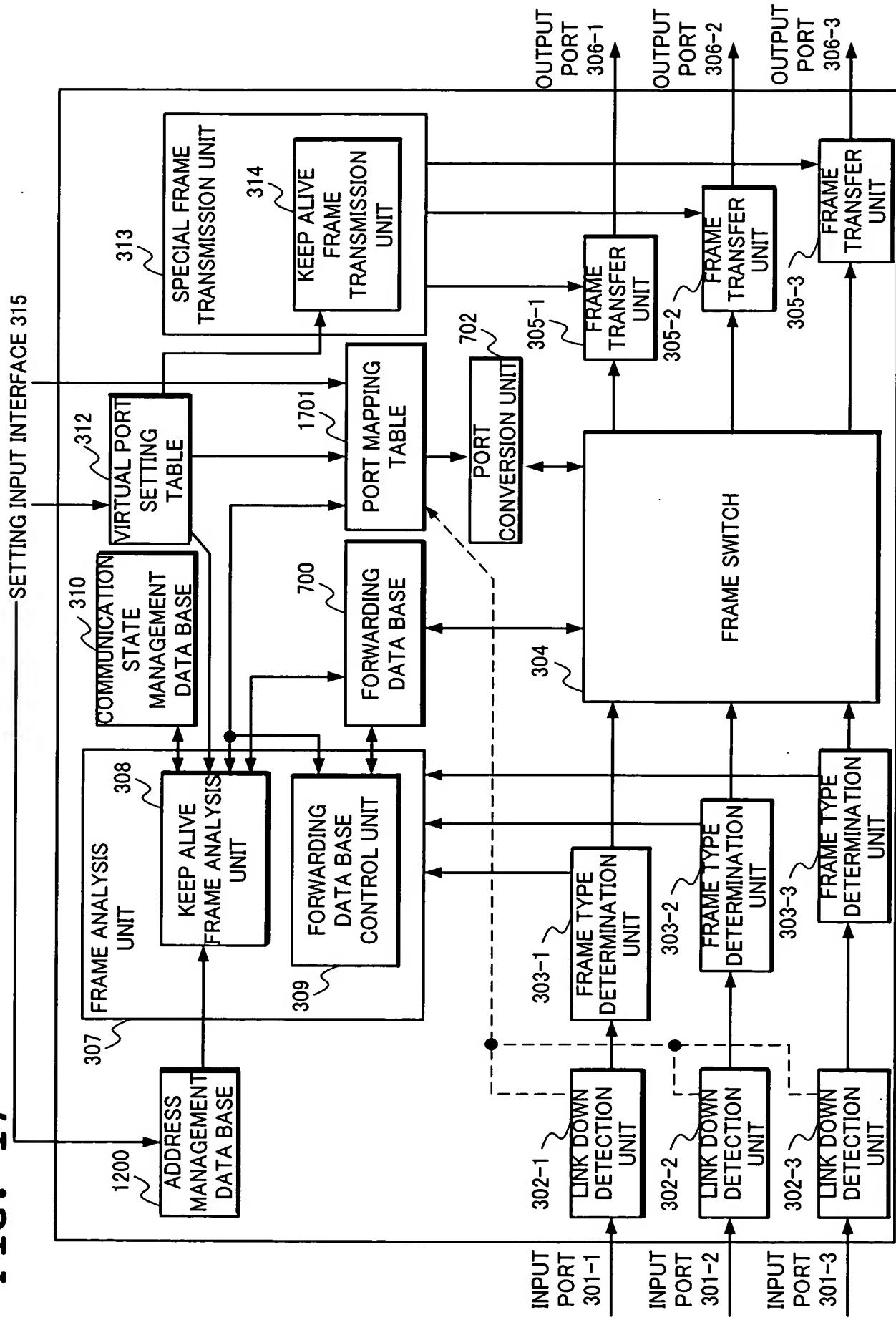
FIG. 15



**FIG. 16**

SETTING INPUT INTERFACE 315



**FIG. 17**

**FIG. 18**

1701 PORT MAPPING TABLE



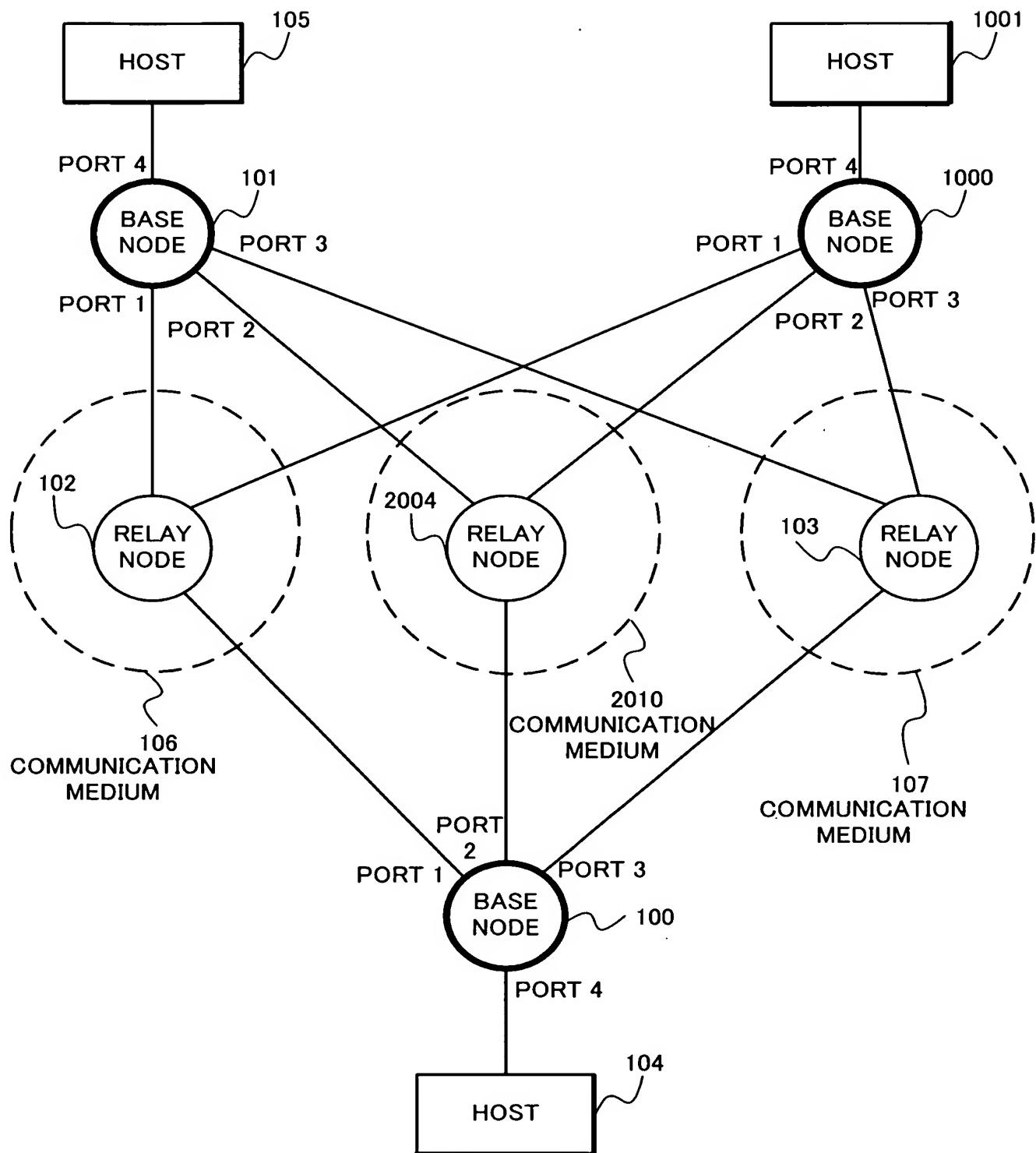
PARTNER NODE INFORMATION	VIRTUAL PORT	REAL PORT
MAC ADDRESS OF BASE NODE 101	PORT 11	PORT 1, PORT 2
MAC ADDRESS OF BASE NODE 1000	PORT 12	PORT 1, PORT 2
BROADCAST MAC ADDRESS	PORT 21	PORT 1, PORT 2

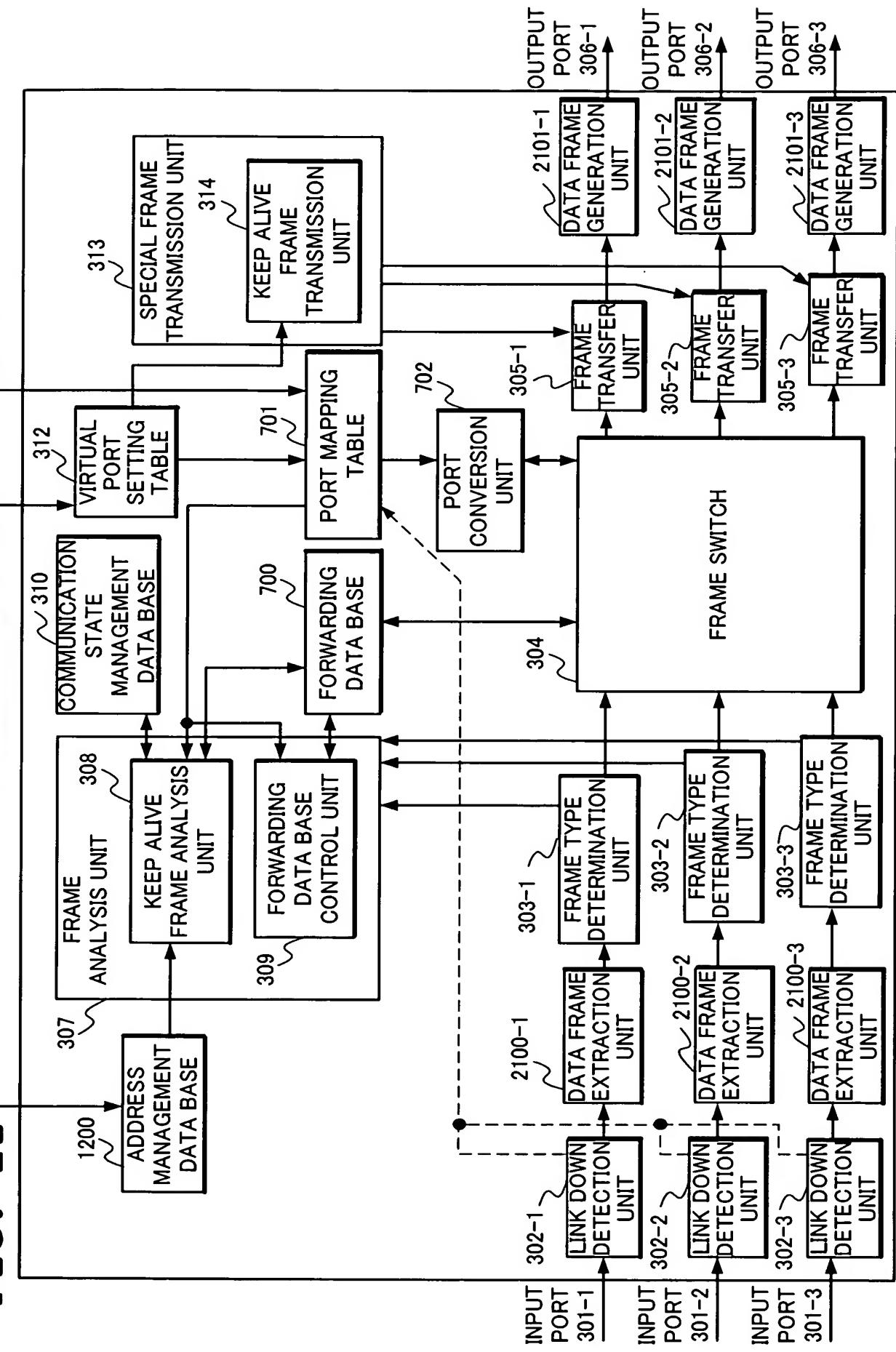
**FIG. 19**

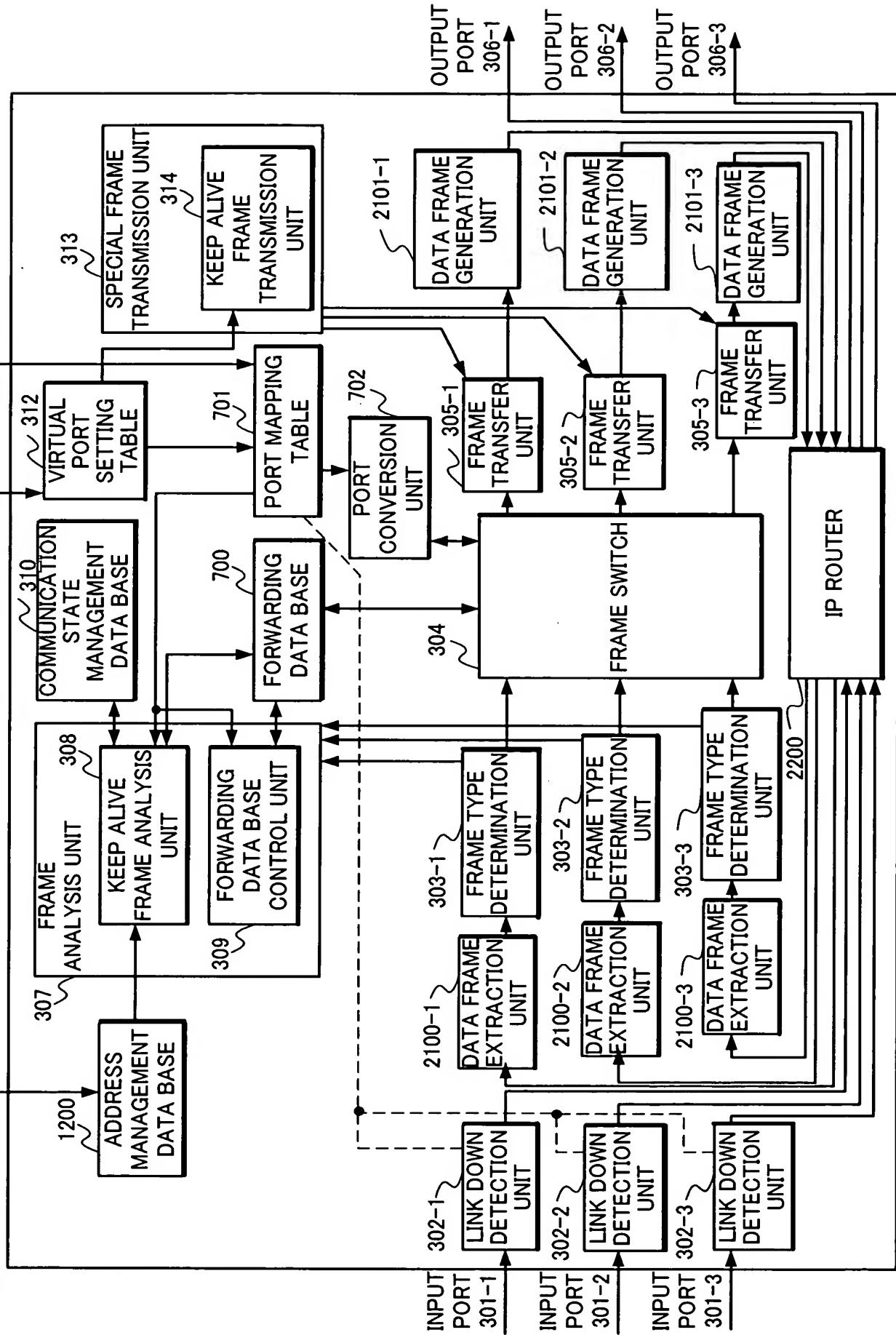
700 FORWARDING DATA BASE



DESTINATION NODE INFORMATION	OUTPUT PORT
MAC ADDRESS OF BASE NODE 1001	PORT 11
MAC ADDRESS OF BASE NODE 1002	PORT 12
MAC ADDRESS OF HOST 1005	PORT 3
MAC ADDRESS OF HOST 1006	PORT 11
MAC ADDRESS OF HOST 1007	PORT 12
BROADCAST MAC ADDRESS	PORT 3, PORT 21
MULTICAST MAC ADDRESS	PORT 3, PORT 21

**FIG. 20**

**FIG. 21**

**FIG. 22**

**FIG. 23**

1201 FORWARDING DATA BASE



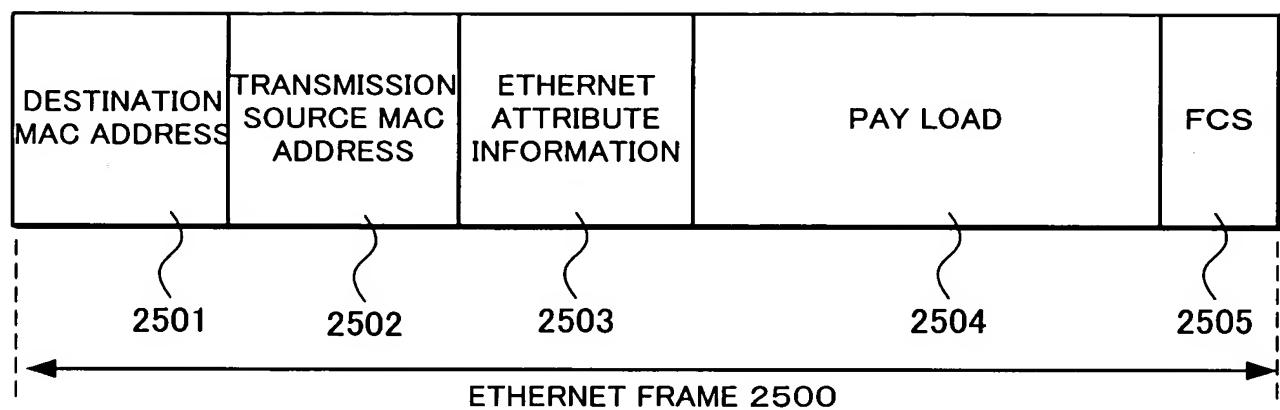
DESTINATION NODE INFORMATION	OUTPUT PORT
MAC ADDRESS OF BASE NODE 101	PORT 11
MAC ADDRESS OF BASE NODE 1000	PORT 11
MAC ADDRESS OF HOST 104	PORT 3
MAC ADDRESS OF HOST 105	PORT 11
MAC ADDRESS OF HOST 1001	PORT 11
BROADCAST MAC ADDRESS	PORT 3, PORT 11
MULTICAST MAC ADDRESS	PORT 3, PORT 11

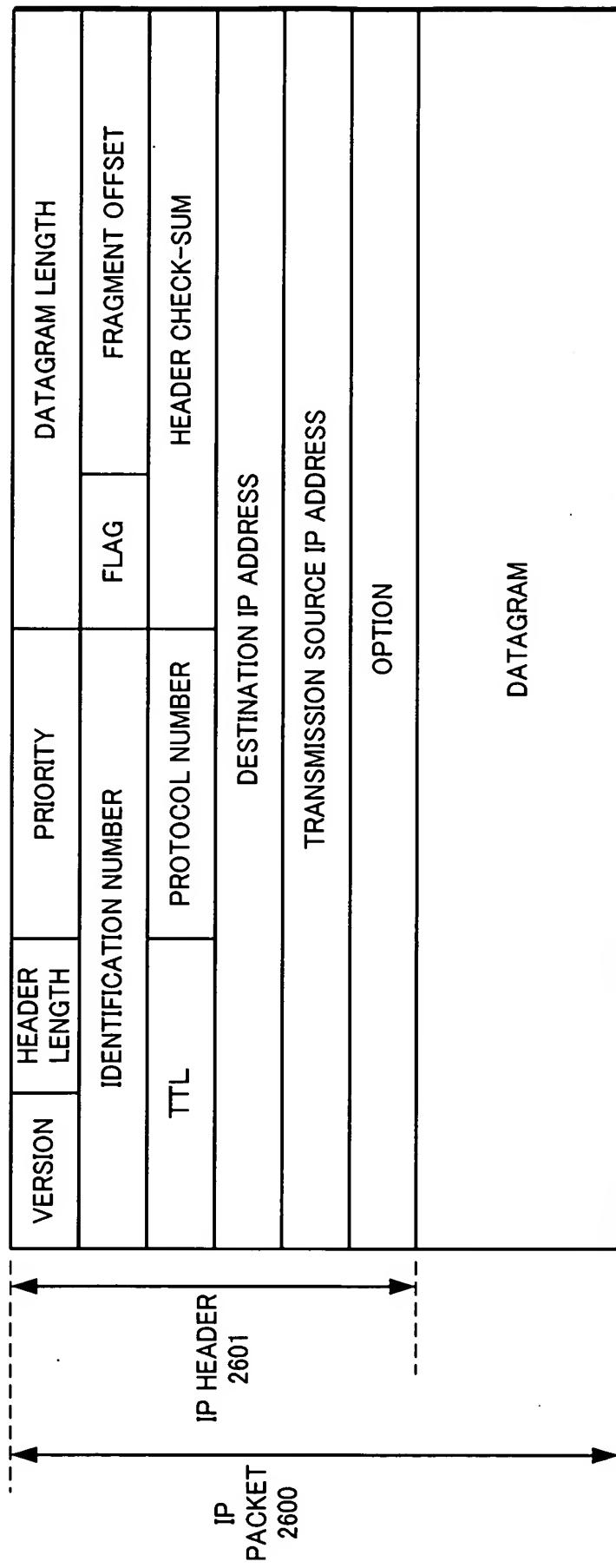
**FIG. 24**

2400 COMMUNICATION STATE MANAGEMENT DATA BASE



TRANSMISSION SOURCE NODE INFORMATION	PORT 1	PORT 2
MAC ADDRESS OF BASE NODE 101	RECEIVED STATE	YET-TO-ARRIVE STATE
MAC ADDRESS OF BASE NODE 1000	YET-TO-ARRIVE STATE	RECEIVED STATE

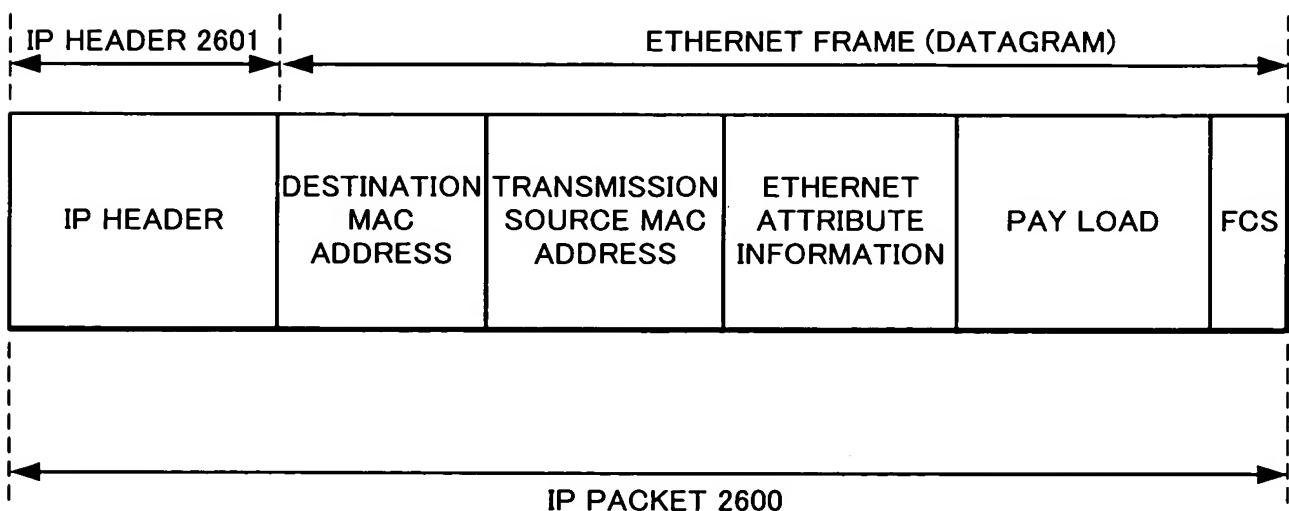
**FIG. 25**

**FIG. 26**

**FIG. 27**

700A FORWARDING DATA BASE

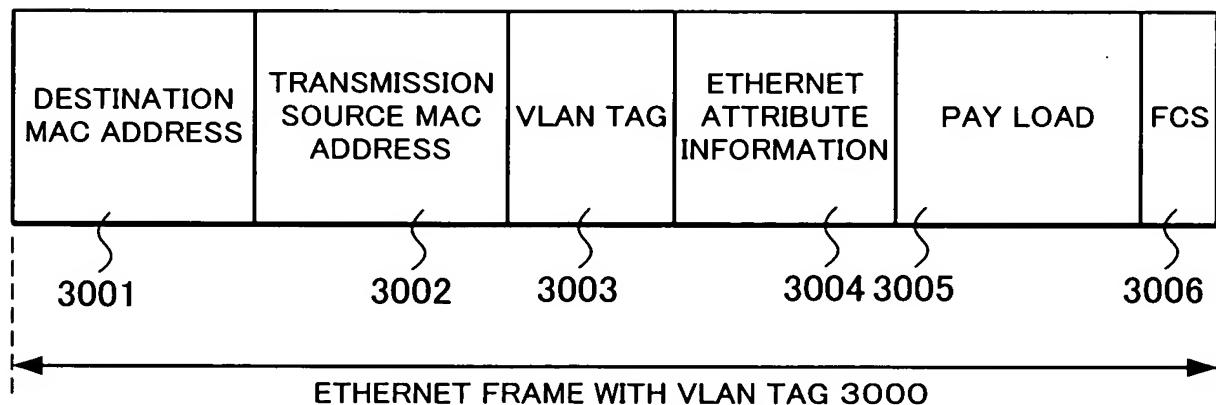
DESTINATION NODE INFORMATION	OUTPUT PORT	IP HEADER INFORMATION
MAC ADDRESS OF BASE NODE 101	PORT 11	IP ADDRESS OF BASE NODE 101
MAC ADDRESS OF BASE NODE 1000	PORT 11	IP ADDRESS OF BASE NODE 1000
MAC ADDRESS OF HOST 104	PORT 3	IP ADDRESS OF BASE NODE 100
MAC ADDRESS OF HOST 105	PORT 11	IP ADDRESS OF BASE NODE 101
MAC ADDRESS OF HOST 1001	PORT 11	IP ADDRESS OF BASE NODE 1000

**FIG. 28**

**FIG. 29**

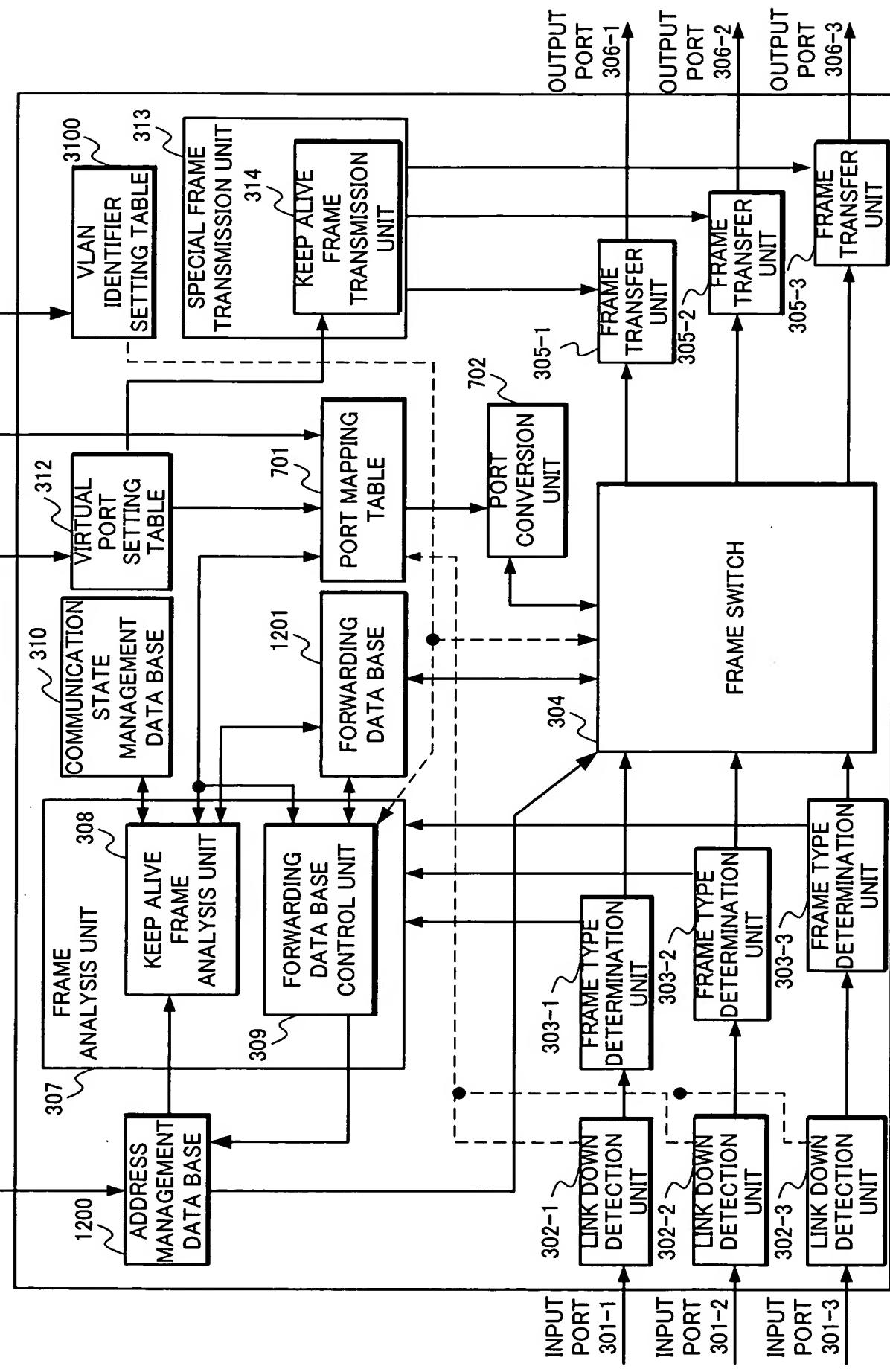
1200 ADDRESS MANAGEMENT DATA BASE

PARTNER NODE INFORMATION	NODE IDENTIFIER OF ROUTER
MAC ADDRESS OF BASE NODE 101	MAC ADDRESS OF ROUTER 1401
MAC ADDRESS OF BASE NODE 1000	MAC ADDRESS OF ROUTER 1402

**FIG. 30**

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**FIG. 31** — **SETTING INPUT INTERFACE 315**



**FIG. 32**

3100 VLAN IDENTIFIER SETTING TABLE



NODE IDENTIFIER 1 OF BASE NODE	NODE IDENTIFIER 2 OF BASE NODE	VLAN IDENTIFIER
MAC ADDRESS OF BASE NODE 100	MAC ADDRESS OF BASE NODE 101	1
MAC ADDRESS OF BASE NODE 100	MAC ADDRESS OF BASE NODE 1000	2
MAC ADDRESS OF BASE NODE 101	MAC ADDRESS OF BASE NODE 1000	3
MAC ADDRESS OF BASE NODE 100	BROADCAST MAC ADDRESS	4
MAC ADDRESS OF BASE NODE 101	BROADCAST MAC ADDRESS	5
MAC ADDRESS OF BASE NODE 1000	BROADCAST MAC ADDRESS	6

**FIG. 33**

DESTINATION NODE INFORMATION	OUTPUT PORT	IP HEADER INFORMATION
MAC ADDRESS OF BASE NODE 101	PORT 2	IP ADDRESS ASSIGNED TO PORT 2 OF BASE NODE 101
MAC ADDRESS OF BASE NODE 1000	PORT 2	IP ADDRESS ASSIGNED TO PORT 2 OF BASE NODE 1000
MAC ADDRESS OF HOST 104	PORT 2	IP ADDRESS ASSIGNED TO PORT 2 OF BASE NODE 100
MAC ADDRESS OF HOST 105	PORT 2	IP ADDRESS ASSIGNED TO PORT 2 OF BASE NODE 101
MAC ADDRESS OF HOST 1001	PORT 2	IP ADDRESS ASSIGNED TO PORT 2 OF BASE NODE 1000

FIG. 34

3402-4 BROADCAST FORWARDING DATA  
/ BASE OF EDGE NODE 3400-3

NODE IDENTIFIER	OUTPUT PORT
3400-1	END

3402-3 / BROADCAST FORWARDING DATA  
3400-2 BASE OF EDGE NODE

NODE IDENTIFIER	OUTPUT PORT
3400-1	END

3402-2 / BROADCAST FORWARDING DATA  
/ BASE OF CORE NODE 3401-1

NODE IDENTIFIER	3400-1	OUTPUT PORT	PORT 3
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3402-1 BROADCAST FORWARDING DATA  
3402-1 BASE OF EDGE NODE 3400-1

NODE IDENTIFIER	OUTPUT PORT
3400-1	PORT 2, PORT 3

